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01/29/2009

LADAS & PARRY LLP
26 WEST 61ST STREET
NEW YORK, NY 10023

EXAMINER

RUIZ, ANGELICA

ART UNIT

PAPER NUMBER

2169

DATE MAILED: 01/29/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,057	07/21/2006	Syouzou Niwata	U 016403-2	6940
TITLE OF INVENTION: COMPUTER SYSTEM AND FILE STORAGE/READ-OUT METHOD				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/29/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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140 7590 01/29/2009

LADAS & PARRY LLP
26 WEST 61ST STREET
NEW YORK, NY 10023

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop [ISSUE FEE] address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/29/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
RUIZ, ANGELICA	2169	707-200000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/587,057

Applicant(s)

NIWATA ET AL.

Examiner

ANGELICA RUIZ

Art Unit

2169

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/19/2008.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413)
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Mohammad Ali/
Supervisory Patent Examiner, Art Unit 2169

DETAILED ACTION

1. This office action is in response to applicant's response to final office action filed on December 1, 2008 in which claims 1-14 are presented for further examination.

In response of Applicants amendments and remarks arguments with respect to the rejection of claims 1-14 under Bauer et al (US 5,627,996), Clark et al. (US 2005/0050054 A1), and Luke et al (US 2002/0116402) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with Raymond A. DiPerna on January 27, 2009.

The application has been amended as follows:

In the claim:

See Attached Exhibit A.

Allowable Subject Matter

4. The present application has been thoroughly reviewed. Upon searching a variety of databases, the examiner respectfully submits that claims 1-14 are allowable in light of the Applicant's arguments and in light of the prior art made of record.

Reason for Allowance

5. The following is an examiner's statement of reasons for allowance: The present invention relates to a system and method that when storing data into a file storage unit assigns and converts filename for storage and filenames for user with a specific filename selected and depending on the user who is logged in. The closest prior art Bauer et al (US 5,627,996) is directed to a method and apparatus for accessing the same computer file using different file formats, Clark et al. (US 2005/0050054 A1) is directed to a storage platform for organizing, searching and sharing data, and Luke et al (US 2002/0116402) is directed to an Information component based data storage and management. However, Bauer, Clark and Luke either singularly or in combination, fail to anticipate or render obvious the recited features "filename; a filename presentation unit (60), presenting, to a user, filenames corresponding to the respective files stored in the file storage unit; a spread processing unit (40), spreading, on the memory, data inside a file corresponding to a specific filename selected by the user from among the filenames presented by the filename presentation unit; and a user interface unit (70), serving an

interface function with respect to the user". These features in conjunction with all other limitations of the dependents and independent claims render claims 1-14 allowable.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELICA RUIZ whose telephone number is (571)270-3158. The examiner can normally be reached on 8:00 a.m. to 4:30 p.m., ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ali can be reached on (571) 272-4105. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angelica Ruiz
Examiner
Art Unit 2169

/Mohammad Ali/
Supervisory Patent Examiner, Art Unit 2169

Exhibit A

1. (Previously Presented) A single unit computer system comprising only one computer with only one operating system, the computer system comprising: a memory (10), whereon data are spread; a program execution unit (20), applying processes, based on a predetermined program including an OS program, to the data spread on the memory; a file storage unit (50), storing files formed of predetermined data; a storage processing unit (30), storing the data, spread on the memory, into the file storage unit as a file having an instructed, predetermined filename; a filename presentation unit (60), presenting, to a user, filenames corresponding to the respective files stored in the file storage unit; a spread processing unit (40), spreading, on the memory, data inside a file corresponding to a specific filename selected by the user from among the filenames presented by the filename presentation unit; and a user interface unit (70), serving an interface function with respect to the user;

the computer system further comprising:

a user recognition unit (90), recognizing a user who is logged in the computer system under operation of said OS program at the present time;

a storage control unit (35), which, when the storage processing unit (30) is storing a file, inputs a filename-for-user under operation of said OS program from the user who is logged in.

executes a filename conversion process of converting the filename-for-user to a filename-for-storage based on a predetermined algorithm, and provides to the storage processing unit an instruction to perform storage using the filename-for-storage;

a correspondence information storage unit (80), which, when the filename conversion process is carried out by the storage control unit (35), stores information, indicating a correspondence between the filename-for-user and the filename-for-storage, as filename correspondence information for the user who is logged-in;

a presentation control unit (65), which, when the filename presentation unit (60) is performing a presentation of filenames under operation of said OS program, references filename correspondence information for the user who is logged in from inside the correspondence information storage unit (80) and provides an instruction to present the filename-for-user in place of the filename-for-storage based on the filename correspondence information referenced so that said filename presentation unit presents the filename-for-user instead of the filename-for storage if a correspondence of the filename-for-storage is indicated in the referenced filename correspondence information, whereas said file name presentation unit presents the filename-for storage as it is if no correspondence of the filename-for-storage is indicated in the referenced filename correspondence information; and

a spread control unit (45), which, when the spread processing unit (40) spreads data, inputs an instruction of selection of a filename-for-user under operation of said OS program from the user who is logged in, references filename correspondence information for the user who is logged in from inside the correspondence information storage unit (80), executes a filename conversion process of converting the selected filename-for-user to a filename-for-storage based on the correspondence information referenced, and provides, to the spread processing unit, an

instruction to spread data in a file with the filename-for-storage resulting from the conversion.

2. (Previously Presented) The computer system according to Claim 1, wherein:

the storage control unit (35) executes the filename conversion process by generating a filename-for-storage that contains at least algorithmically random codes.

3. (Previously Presented) The computer system according to Claim 1, wherein:

the correspondence information storage unit (80) stores a correspondence table, indicating a correspondence between a filename-for-user and a filename-for-storage, as the filename correspondence information.

4. (Original) The computer system according to Claim 1, wherein:

the storage control unit (35) executes the filename conversion process from a filename-for-user to a filename-for-storage by generating a filename-for-storage based on an algorithm for reversible conversion.

5. (Original) The computer system according to Claim 4, wherein:

the correspondence information storage unit (80) stores information, indicating the reversible conversion algorithm used in the filename conversion process, as the filename correspondence information.

6. (Previously Presented) The computer system according to Claim 1, wherein:

the storage control unit (35) executes the filename conversion process on the entirety of a filename, including an extension portion.

7. (Previously Presented) The computer system according to Claim 1, wherein:

the storage control unit (35) executes a conversion process of converting not only a filename but also contents of timestamps or other attribute information that are stored along with a file,

the correspondence information storage unit (80) executes a process of storing, as the filename correspondence information, not just a correspondence of filenames but also a correspondence of attribute information before and after the conversion process; and
the spread control unit (45) executes a process of restoring converted attribute information based on the correspondence of attribute information before and after the conversion process.

8. (Previously Presented) The computer system according to Claim 1, wherein:

the correspondence information storage unit (80) executes a process of encrypting and then storing the filename correspondence information and executes, upon receiving a reference of the stored filename correspondence information, a process of decrypting and then presenting the information to be referenced.

9. (Previously Presented) The computer system according to Claim 1, wherein:

the correspondence information storage unit (80) is arranged from a portable information storage medium that can be freely attached to and detached from a main body of the computer system.

10. (Previously Presented) The computer system according to Claim 1, wherein:

functions of the storage control unit (35), the spread control unit (45), and the presentation control unit (65) incorporate a dedicated application program in a computer and the storage control unit (35), the spread control unit (45), and the presentation control unit (65) are made to operate only when said program is started up.

11. (Previously Presented) The computer system according to Claim 1, wherein:

the file storage unit (50) is arranged from a plurality of data storage devices (51, 52, 53) that are configured distributively,

the storage processing unit (30A) is provided with a function of dividing a file to be stored into a plurality of partition files and storing the respective partition files in different data storage devices (51, 52, 53),

the spread processing unit (40A) is provided with a function of synthesizing and thereby restoring the plurality of partition files, respectively stored in different data storage devices (51, 52, 53), to an original file and then spreading the original file on the memory, and

the correspondence information storage unit (80A) is provided with a function of storing filename correspondence information indicating a correspondence of a "single filename-for-user" to a "plurality of filenames-for-storage," used as respective filenames of the partition files.

12. (Previously Presented) A computer readable storage medium including a program making a computer function as the storage control unit (35), the spread control unit (45), and the presentation control unit (65) of the computer system according to Claim 1.

Art Unit: 2169

13. (Currently Amended) A file storage/read-out method that makes a single unit computer system comprising only one computer with only one operating system execute a storage process of storing data as a file with a predetermined filename into a file storage unit (50) and a readout process of reading out data in a file stored in the file storage unit, ~~wherein the computer system comprises only one computer with only one operating system;~~

said method making the computer system execute under operation of a particular OS

program,

in the storage process:

a storing user recognition step of recognizing a user who is logged in at the present time;

a storage filename input step of inputting a filename-for-user to be assigned to a file to be stored;

a filename conversion step of converting the filename-for-user to a filename-for-storage based on a predetermined algorithm;

a correspondence information storage step of storing information, indicating a correspondence between the filename-for-user and the filename-for-storage, as filename correspondence information for a user who is logged in; and

a file storage step of storing the file to be stored into the file storage unit under the filename-for-storage; and

in the readout process:

a reading user recognition step of recognizing a user who is logged in at the present time;

a readout filename input step of inputting a filename-for-user for specifying a file to be read out;

a filename referencing step of referencing a filename-for-storage, corresponding to the input filename-for-user, based on the filename correspondence information for a user who is

logged in; and

a file readout step of reading out a file stored in the file storage unit under the filename-for-storage, obtained by the referencing, as the file to be read out.

14. (Original) The file storage/read-out method according to Claim 13, wherein:

the readout filename input step is executed by a method whereby filenames-for-user corresponding to respective files stored in the file storage unit are referenced and displayed in a list based on the filename correspondence information and a user is made to select a specific filename from among the filenames displayed in the list.